

Charles B. Pyke, Ph.D.
Forensic Meteorologist

Principal Scientist and Primary Expert Witness,
American Weather & Hydrology, LLC
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METEOROLOGICAL SPECIALTIES:

Expert Witness Testimony: for litigation: Forensic discovery and testimony in depositions and court trials.
Meteorological and climatic research: Investigation of historical weather events, storms, and floods.
Special weather forecasts and seasonal outlooks, based upon *El Niño*, *La Niña*, and Pacific Decadal Oscillation.

PROFESSIONAL METEOROLOGICAL EXPERIENCE: *

American Weather & Hydrology, LLC dba California Weather & Earth Sciences 2004 - .

Principal Scientist, Seasonal Weather Outlook Specialist, and Primary Expert Witness.
Hundreds of Expert Witness cases, several dozen involving trial testimony.
Thousands of weather forecasts, plus seasonal and multi-seasonal weather outlooks.

Associated Science Experts, LLC 2004 - .

Founder, Owner, Managing Member, Principal Scientist, and Primary Expert Witness.
Numerous Expert Witness cases involving depositions, with many involving trial testimony. Meteorological research and studies.

Continental Weather & Earth Sciences, Inc. 1989-2004.

President, Chief Executive Officer, Chairman of the Board, Director, Principal Scientist, Primary Expert Witness, Leading Forecaster, and Seasonal Outlook Specialist.
Specialized weather forecasts, seasonal and multi-seasonal weather outlooks.
Forensic discovery and expert witness testimony, plus major research projects.

U.S. Army Corps of Engineers, Los Angeles District, 1971-1990.

Flood Control Meteorologist (civilian).
Design storm rainfall for dams, reservoirs, flood-control channels, and levees.
Design of flood warning systems, flash flood warning brochures, expert witness testimony.
Specialized weather forecasts and seasonal weather outlooks for flood control, water resources, and construction.
Storm studies, water control manuals.

U.S. Air Force and California Air National Guard: Military Airlift Command, 1960-1973.

Air Weather Service Officer / Chief Weather Forecaster, 1963-1973.
Hundreds of pilot weather briefings, flying missions in U.S. and overseas.
Forecasts for Army National Guard during **Hurricane Camille**, 1969,
Air Weather Service Observer and Chief Observer, 1960-1963.
Supervisor of Air Force weather observers; forecasting assistance to Air Force weather officers.

University of California, Los Angeles: Department of Atmospheric Sciences, 1964-1971.

Lecturer, Laboratory Associate, Research Assistant, and Teaching Assistant.
Special courses, laboratories, and workshops in Atmospheric Science and Meteorology.
Research in Atmospheric Science, Meteorology, and Climatology.

California State University, Northridge: Department of Geography, 1969-1970.

Assistant Professor, Meteorology and Climatology.
Courses in Atmospheric Sciences, Meteorology, and Climatology.

* Listed in reverse chronological order

EDUCATION and ACADEMIC PUBLICATIONS: *

University of California, Los Angeles: Department of Meteorology / Atmospheric Sciences.

Degrees: Ph.D., Meteorology, 1972. M.A., Meteorology, 1965. B.A., Meteorology, 1963.

Research Publications:

Pyke, Charles B. 1976, Pioneering research paper (post-doctoral) on effects of *El Niño* and *La Niña* upon precipitation patterns from California to Georgia. Written under Dr. J. Bjerknes, world-renowned professor, author, and founder of modern meteorology.

Major applications to seasonal and multi-seasonal weather forecasting.

Pyke, Charles B., 1972. "Some Meteorological Aspects of the Seasonal Distribution of Precipitation in the Western United States and Baja California." **Doctoral Dissertation**, written under Prof. J. Bjerknes.

Significant applications to precipitation forecasting in each season..

Pyke, Charles B., W.J. Bonner, and R.J. Hickey, 1969: Analysis of major flood-producing January 1969 storms in Southern California. Written under Dr. William J. Bonner, Associate Professor of Meteorology. *Major applications to the determination of extreme precipitation, including 100-year rainfall.*

Pyke, Charles B., 1965. Master's Thesis on California: storm sizes, correlations, and short-term climatic variations found to be related to the Pacific Decadal Oscillation. Written under Prof. J. Bjerknes.

Significant applications to multi-year fluctuations in rainfall patterns.

Pyke, Charles B.,, 1963: "On the Role of Air-Sea Interaction in the Development of Cyclones." Written under Dr. Joanne Malkus (later Dr. Joanne Simpson), Professor of Meteorology, UCLA. **Paper won the national MacElwane Award for undergraduate paper. This award-winning paper was published and featured as the lead article in the January 1964 issue of the *Bulletin of the American Meteorological Society*, with a full-page front cover illustration.**

Major applications to understanding "perfect storm" scenarios.

Military Education: *

U.S. Air Force:

Advanced Weather Officer Course, 1969.

Squadron Officer Course, 1963

Air Traffic Control Course, 1961

Aviation Meteorology Course. Chanute Technical Training Center, 1960.

U.S. Navy:

Naval Engineering, plus General Engineering & Sciences, U.S. Naval Academy, 1957-1958.

U.S. Army:

Reserve Officers' Training Corps, UCLA:, General Military Engineering, 1956-1957.

ADDITIONAL PUBLICATIONS: *

Author of hundreds of forensic discovery / analysis reports for litigation and insurance cases, plus hundreds of research reports for various clients 1989-present.

Author of numerous U.S. Army Corps of Engineers Situation Reports on storms, floods, and earthquakes, 1971-1990.

Author or contributing author of many U.S. Army Corps of Engineers General Design Memoranda, Storm Studies, Environmental Impact Statements, Survey Reports, Water Control Manuals, and Construction Manuals, 1971-1990.

Author of a number of Air Weather Service manuals and other publications, U.S. Air Force, 1960-1973 .

PROFESSIONAL MEMBERSHIPS, active [a], recent [r], and past [p] include:

American Meteorological Society [a].

American Water Resources Association [r].

Los Angeles Geographical Society [r].

National Weather Association [p].

California Weather Association [p]

* Listed in reverse chronological order.

Résumé updated 4/1/14. For a more detailed résumé, go to <http://www.charlesbpyke.com>